

**AMENDMENTS TO THE CLAIMS**

1. (Currently Amended) A sensor for a bearing, comprising:

    a sensor being incorporated into the bearing or its surroundings, wherein  
    [[a]] ~~the sensor includes voltage means operable is configured~~ to decrease an  
    output voltage ~~of the sensor~~ in conjunction with an increase of measured temperature ~~by~~  
    ~~the measured sensor~~.

2. (Original) The sensor according to claim 1, wherein

    one or more fixed resistors is connected to the sensor.

3. (Currently Amended) The sensor according to claim 2, wherein the sensor is  
constructed by a thermistor, and wherein the one or more fixed resistors are ~~resistor~~ is connected  
in parallel with the ~~sensor~~ thermistor.

4. (Original) The sensor according to claim 3, wherein the thermistor is constructed by a  
NTC thermistor having a negative temperature characteristic.

5. (Currently Amended) The sensor according to claim 3, wherein the thermistor is  
constructed by one of a PTC thermistor and a silicon thermistor, and wherein the one of the PTC  
thermistor and the silicon thermistor ~~have~~ has a positive temperature characteristic.

6. (Original) A bearing apparatus, comprising:

    a sensor according to claim 1.

7. (Original) The bearing apparatus according to claim 6, further comprising:

    a temperature detection circuit; and

    a cable for connecting the sensor and the temperature detection circuit.

8. (Original) The bearing apparatus according to claim 7, wherein the temperature detection circuit has a resistor for converting an output of the sensor into a voltage.
9. (Original) An abnormality determining apparatus for an axle bearing, comprising:  
a bearing apparatus according to claim 6.
10. (Original) The bearing apparatus according to claim 6, further comprising:  
a rotation speed sensor; and  
a vibration sensor.
11. (Original) A bearing apparatus, comprising  
a sensor according to claim 2.
12. (Original) The bearing apparatus according to claim 11, further comprising:  
a temperature detection circuit; and  
a cable for connecting the sensor and the temperature detection circuit.
13. (Original) The bearing apparatus according to claim 12, wherein  
the temperature detection circuit has a resistor for converting an output of the sensor into a voltage.
14. (Original) An abnormality determining apparatus for an axle bearing, comprising:  
a bearing apparatus according to claim 11.
15. (Original) The bearing apparatus according to claim 11, further comprising:  
a rotation speed sensor; and  
a vibration sensor.

16. (Original) A bearing apparatus, comprising:  
a sensor according to claim 3.

17. (Original) The bearing apparatus according to claim 16, further comprising:  
a temperature detection circuit; and  
a cable for connecting the sensor and the temperature detection circuit.

18. (Original) The bearing apparatus according to claim 17, wherein  
the temperature detection circuit has a resistor for converting an output of the  
sensor into a voltage.

19. (Original) An abnormality determining apparatus for an axle bearing, comprising:  
a bearing apparatus with the sensor according to claim 16.

20. (Original) The bearing apparatus according to claim 16, further comprising:  
a rotation speed sensor; and  
a vibration sensor.